Exhibit 2

7183578615 PATENT COOPERATION TREATY

. Į	From the INTERNATIONAL SEARCHING AUTH	ORITY			
ſ	To:			PCT	
	ALBERT WAI-KIT CHAN LAW OFFICES OF ALBERT WAI-KIT CHAN, LLC WORLD PLAZA, SUITE 604 141-07 20TH AVENUE WHITESTONE, NY 11357		WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY (PCT Rule 43bis.1)		
			Date of mailing (day/month/year) 14 APR 2005		
Ì	Applicant's or agent's file reference		FOR FURTHER ACTION See paragraph 2 below		
	639-C-PCT				
	International application No.	International filing date			
	PCT/US04/23099 International Patent Classification (IPC)	16 July 2004 (16,07,200	4) ion and IPC	16 July 2003 (16.07.2003)	
		Of OOM Introduct orangement			
	IPC(7): C08B and US Cl.: 536/056 Applicant				
	SLOAN-KETTERING INSTITUTE FO	R CANCER RESEARCH			
•		· · · · · · · · · · · · · · · · · · ·			
	1. This opinion contains indications re	lating to the following item	13:		
	Box No. I Basis of the	e opinion			
	Box No. II Priority				
	Box No. III Non-estab	dishment of opinion with re	regard to novelty, inventive step and industrial applicability		
	Box No. IV Lack of u	nity of invention			
-			r. 1(a)(i) with regard to novelty, inventive step or industrial one supporting such statement		
المنسا.	1 —	ocuments cited			
	Box No. VII Certain de	efects in the international ap			
	Box No. VIII Certain of	eservations on the internation	onal application		
	2 FURTHER ACTION				
	If a demand for international preliminary examination is made, this opinion will be considered to be a written opinion of the International Preliminary Examining Authority ("IPEA") except that this does not apply where the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has potified the International Bureau under Rule 66.1bis(b) that written opinions of this International Searching Authority will not be so considered.				
	If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA a written reply together, where appropriate, with amendments, before the expiration of 3 months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later.				
	For further options, see Form PCT				
	3. For further details, see notes to For	3. For further details, see notes to Form PCT/ISA/220.			
	Name and mailing address of the ISA/	US	Authorized office	Toursol Deduce of	
	Mail Stop PCT, Attn: ISA/US Commissioner for Patents		James O Wilson	1	
	P.O. Box 1450	ì	Telephone No.	703-308-1235	
Alexandria, Virginia 22313-1450 Facsimile No. (703) 305-3230			i cichimic 140.	,	
	Form PCT/ISA/237 (cover sheet) (January 2004)				

LAW OFFICE OF ALBERT

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application ivo.	
PCT/US04/23099	

	Box No. I Basis of this opinion		
	1. With regard to the language, this opinion has been established on the basis of the international application in the language in which it 1. With regard to the language, this opinion has been established on the basis of the international application in the language in which it 1. With regard to the language, this opinion has been established on the basis of the international application in the language in which it		
		This opinion has been established on the basis of a translation from the original language into the following language This opinion has been established on the basis of a translation from the original language into the following language which is the language of a translation furnished for the purposes of international search (under Rules 12.3 and 23.1(b)).	
	2. With regard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the claimed invention, this opinion has been established on the basis of:		
	а.	type of material	
•		a sequence listing	
9		table(s) related to the sequence listing	
	b.	format of material	
		in written format	
		in computer readable form	
	c .	time of filing/furnishing	
		contained in international application as filed.	
		filed together with the international application in computer readable form.	
		firmished subsequently to this Authority for the purposes of search.	
)	3.	In addition, in the case that more than one version or copy of a sequence listing and/or table relating thereto has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.	
	4. Addit	ional comments:	

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WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHO		International application No. PCI/US04/23099		
Box No. V Reasoned statement under Rule 43 bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement				
1. Statement				
Novelty (N)	aims 5,8-13		_YES	
CI	aims <u>1-4, 6, 7</u>		_NO	
	aims <u>1-4.6.7</u>		_YES	
			_NO	
	•	_	,,,,,	
			_yes _no	
CI	alms NONE			
2. Citations and explanations: Please See Continuation Sheet				
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WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International	application	No.
PCT/I ISO4/2		

Supplemental Box In case the space in any of the preceding boxes is not sufficient.

V. 2. Citations and Explanations:

Claims 5, 8-13 meet the criteria set out in PCT Article 33(2), because the prior art does not explicitly teach these compounds.

Claims 1-4, 6,7 meet the criteria set out in PCT Article 33(3), thus having an inventive step.

Claims 1-13 meet the criteria set out in PCT Article 33(4), and thus have industrial applicability because the subject matter claimed can

be made or sued in industry.

Claims 1-4, 6, 7 do not meet the criteria set out in PCT Article 33(2), because James et al. (US 5,849,720) teach these compounds... James et al. teach a composition comprising an effective amount of orally administered glucan, that is 1,3-1, 6 or 1,3-1, 4 mixed linkages that is capable of enhancing efficacy of antibodies (see column 4, lines 54-64). James et al. teach the use of said composition paired with a pharmaccutically acceptable carrier (see column 5, example 1). James et al. teach glucan derived from yeast, bacteria, fungi, and plants (column 1, lines 13-15). James et al. teach the glucan to be of a high molecular weight ranging from 10,000 to 500,000 daltons (column 4, lines 23-25), which is stable to heat treatment (see Examples 1 and 2, column 5 and 6).

Claims 5, 8-13 do not meet the critera set out in PCT Article 33(3), thus lacking an inventive step in view Jamas et al (US 5,849,720), Dorothee Herlyn (US 5,130,127), Yan et al. ("Beta-glucan, a "specific" biologic response modifier that uses antibodies to target turnors for cytotoxic recognition by lenkocyte complement receptor Type 3," Journal of immunology, 1999, Vol. 163, pp. 3045-3052), Dante J. Marciani (US 6,573,245), Choever et al. (US 6,664,370), Chu et al. (Pub No. 2004/0109857), and Lane et al. (Pub No. 2003/0180254).

As discussed above, James et al teach the limitations of claims 1-4. James et al. does not teach the limitations found in claims 5 and 8-13 as stated above. Dorothee Hertyn teaches a monoclonal tumor-binding antibody against cancer (column 1, lines 11-55), which is capable of activating complement (column 3, lines 40-45). Dorothee Herlyn teaches an antibody capable of activating the antibody dependent cell-mediated cytotoxicity (column 2, lines 25-30). Additionally, Dorothee Herlyn teaches the cancer to be melanoma or colon cancer (column 3, lines 55-57, claims 10 and 11).

As relating to claim 74 and 75, Yau et al. teach the antibody directed to a peptide, protein, RNA ,DNA or plasmid (page 12, middle paragraph, and page 14, last paragraph), and specifically, to ganglioside GD2 (page 12, middle paragraph).

As relating to claim 76, Chu et al. teach the antigen to be CD20 (page 15, paragraph 96 and table 4). As relating to claim 77, Cheever et al. teach the antigen to be HER-2/neu (column 14, lines 47-57).

As relating to claim 78, Lane et al. teach the antigen to be CD25 (page 2, paragraph 25, and page 12, paragraph 133).

Therefore, it would have been obvious to one having ordinary skill in the art at the time the invention was made to prepare the above taught composition in an effective amount as taught by the applicant having the above-cited references before him. It is well known in the art that glucan works by activating the immune system in response to a myriad of factors, including many types of foreign cells and intigens-viruses, bacteria, and various types of cancer. Specifically, glucan mimics the natural physiologic response to an infectious challenge by enhancing the balanced, endogenous release of cytokines (James et al.). By considering the teaching of James et al. and Dorothec Herlyn, it would lead one skilled in the art to have a reasonable expectation of success in combining the method for producing high molecular weight, soluble glucan polymers taught by James et al. with the teachings of Dorothee Herlyn, Marciani et al, Yan et al., Chu et al., Cheever et al, and Lane et al. to treat infectious and autoimmune diseases, including enhancing efficacy of antibodies against many types of cancer. One skilled in the art would be motivated to combine these two teachings to obtain a less

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WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No. PCT/US04/23099

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ovasive, more convenient cancer fighting regiment that included oral administration of tumor fighting agents, and thus overcome what was once a significant impediment in the art.		

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